

CLAIMS

1. A machine for cutting and tritulating grass and other vegetable products, comprising a protection element
5 (30), equipped with wheels, rollers or slides (35) and containing at least one pair of cutting assemblies (15, 16), wherein one cutting assembly (15) comprises blades of the lawn mower type or of the spoon-like type (21) and one cutting assembly (16) comprises shredding type
10 blades (22), and a deflecting element (25, 125, 25') being placed between the two cutting assemblies (15, 16) which causes the detachment of portions of the cut vegetable products from an inner wall of the protection element (30) and delivers them over the cutting assemblies
15 (15, 16), said deflecting element (25, 125, 25') protruding toward the inside of the protection element (30).

2. Machine according to claim 1, characterized by the fact of being a lawnmower.

3. Machine according to claims 1 or 2, characterized
20 by the fact that said deflecting element (25, 125) is connected peripherally at least partially to the blades of both the two cutting assemblies (15, 16).

4. Machine according to claims 1 or 2, characterized by the fact that said deflecting element (25) is of the
25 wedge type, is fixed to said protection element (30) and

fits between said two cutting assemblies (15, 16).

5 5. Machine according to claim 4, characterized by the fact that said deflecting element (25) of wedge type together with said two cutting assemblies (15, 16) define a chamber (40) of treatment of grass and other cut vegetable products.

6. Machine according to claims 1 or 2, characterized by the said fact that said deflecting element (125, 25') is movable in respect to said protection element (30).

10 7. Machine according to claim 6, characterized by the fact that said deflecting element (125) envisages one portion of extremity (42) placed at square angles in respect to a first pivoting portion (41) of said element.

15 8. Machine according to claim 6, characterized by the fact that said deflecting element (25') can be moved at least from a position aligned with said protection element (30) to a lowered position, almost between said two cutting assemblies (15, 16), to deflect the portions of cut grass (32).

20 9. Machine according to claims 1 or 2, characterized by the fact that, in the direction of forward movement (A) of the lawnmower, said cutting assembly (15) equipped with lawn mowing or spoon-like type blades (21) is placed before said cutting assembly (16) equipped with
25 shredding type blades (22).

10. Machine according to claims 1 or 2, characterized by the fact that both said two cutting assemblies (15, 16) are controlled by a single motion assembly (14).

11. Machine according to claim 10, characterized by
5 the fact that said two cutting assemblies (15, 16) are controlled by a single motion assembly (14) connectable by means of a transmission (13) to a power takeoff (12) of a motorized vehicle (11).

12. Machine according to claims 1 or 2, characterized
10 by the fact that both said lawn mowing or spoon-like type blades (21) and said shredding type blades (22) are constrained to support extensions (19, 20) which are bound to a central shaft (17, 18).

13. Machine according to claims 1 or 2, characterized
15 by the fact that said deflecting element (125, 25') is constrained, in an oscillating way, by means of a shaft (26) to said external protection element (30) and is controllable by means of a lever (27) joined to it.

14. Machine according to claim 1, characterized by the
20 fact that it can be used as a shredder for cutting and finely shredding grass also of the field type or other vegetable products as bushes, vegetable residues of plants as runners and prunings as well as cut stems from the cultivations which remain in the ground after the
25 crop, as stubbles, stalks or other.